

REMARKS

Claims 1 to 6, 9 to 13, 18 to 62 are in the application, with Claims 1, 11, 24, 27, 34, 44 and 54 being the independent claims. Claims 1 to 6, 9 to 13, and 18 to 26 were indicated as being allowed in the Notice Of Allowability dated December 5, 2002. These claims have not been amended herein and thus remain in condition for allowance. Claim 27 has been amended; and Claims 29 to 62 have been newly-added. Favorable review and early passage to issue are respectfully requested.

Applicant's undersigned attorney may be reached in our Costa Mesa, California office by telephone at (714) 540-8700. All correspondence should continue to be directed to our address given below.

Respectfully submitted,



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CA_MAIN 62326 v 1

Application No.: 09/577,978
Attorney Docket No.: 00684.003026

APPENDIX

VERSION WITH MARKINGS TO SHOW CHANGES MADE TO CLAIMS

27. (Amended) A projection exposure apparatus, comprising:

a projection optical system for projecting a transfer pattern of a first object onto a second object;

a first illumination system for illuminating the [pattern of the] first object under a first illumination condition, wherein the transfer pattern of the first object illuminated under the first illumination condition is projected onto the second object through said projection optical system;

a second illumination system for [illuminating the first object under] providing illumination according to a second illumination condition;

a light intensity detector for detecting a light intensity distribution of an image[, formed through said projection optical system, of the pattern of the first object illuminated under the second illumination condition] of a measurement pattern illuminated by said second illumination system under the second illumination condition, the image being formed through said projection optical system; and

an information processing system operable to measure wavefront aberration of said projection optical system on the basis of [the] a result of detection by said light intensity detector;

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wherein the first and second illumination conditions have different spatial
coherencies.

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